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As discussed in the interview, the terminology used in claim 1 of the present application is meant to cover many inventive embodiments and therefore is extremely broad. As in the case of many patents, when broad terminology is employed, the meaning of the language becomes somewhat more difficult to comprehend. Nevertheless, Applicant is entitled to use broad claim language as long as that language is used consistently throughout the specification and in a manner that is not inconsistent with the way in which the language is normally used within relevant arts. Applicant has reviewed the pending claims in this application and believes that the language used in the claims is consistent, clear and acceptable in light of claim drafting requirements.

Also, as discussed during the interview, while the language in claim 1 is extremely broad, there are many other independent claims in the present application that use far more limiting and restrictive language than claim 1 and that are therefore somewhat easier to understand. To this end, see claims 35, 42, 46, 48, 53, 71, 92, 97, 98, 100, 106, 108, 112, 130, 151, 156 and 157.

With respect to the invention, as discussed during the interview, the present invention is provided so that a single system can configure various types of indicating configurations to be used with containers. Hereafter, to shed light on the claimed subject matter, a specific example of the claimed invention is described followed by a general discussion of claim 1 and how claim 1 covers the specific example.

Specific Example: In the case of medical vials, a single system may be able to provide two different label types including a conventional sticker type label including printed human readable text as well as an enhanced label including an RF ID tag that can be used with a data collector to subsequently collect information from the RF tag. Here, the important concept is that a single system generates both enhanced and non-enhanced labels depending upon what the label is going to be used for. In the present example where the labels are to be applied to vials to characterize medicants to be deposited therein, which label type to include on a vial can be related to requirements of an order or prescription related thereto. Thus, for

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example, where a prescription from a doctor orders that a patient is to take medicant A three times daily, the order may or may not require an enhanced label to help the patient comply with the prescribed medicant schedule. The information in the order that specifies whether or not an enhanced label should be included with the order is referred to in the claims and throughout the present specification as a "descriptor".

In the present example, when the inventive system receives a prescription (i.e., an order) to fill, the system reads the descriptor (i.e., the part of the order that indicates whether or not an enhanced label is required) associated with the prescription to determine if an enhanced label is required and, when an enhanced label is required, the system automatically writes data to an enhanced label to be subsequently gathered from the enhanced label via the data collector.

When an enhanced label is not required, the system performs some function other than writing data to an enhanced label. For instance, the system may print prescription information on a standard sticker type label and apply the standard label to a vial that is to receive the prescribed medicant.

Once again, Applicant points out that the important and inventive limitation in the above example is that a single system is capable of automatically determining the required label type and then performing process steps to provide the required label type.

Claim 1: The Office Action indicates that some of the language in claim 1 is unclear. Applicant disagrees and provides the following brief explanation of some of the key terms and phrases in claim 1. In claim 1, the term "order" is used to refer generally to a prescription or other type of fulfillment request that is to be associated with a container. Thus, while the term order may refer to a medicant prescription, the term order may also refer to an order to Amazon.com requiring shipment of three books to a specific recipient, an order to a mail order computer company to ship a specifically configured laptop computer, etc.

The phrase "indicating configuration" is used to refer generally to a component that can be used in any fashion to indicate information about an associated container or items to be stored therein. For instance, exemplary

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indicating configurations include a typical sticker type label, an RF ID tag, a combined RF ID tag/sticker type label, an RF transmitter capable of transmitting data within a close proximity, an IR transmitter, etc.

The phrase "enhanced device" is used to refer to an indicating configuration that is cooperates with a data collector to collect information therefrom. Thus, for instance, one enhanced device may be an RF ID appended to a vial. Here, after data is written to the RF ID tag, an RF ID reader may be provided that excites the RF ID tag causing the tag to transmit information to the reader.

In claim 1, the term "descriptor" is used to refer to the information in an order that specifies whether or not an enhanced label should be included with the order. Thus, for instance, in some cases, the descriptor may simply include an indication that an RF ID tag must be included on a vial in which a specific medicant is to be stowed. As another instance, the descriptor may include the name of a patient who always uses RF ID tagged vials. Here, after the patient's name is identified by a processor, the processor may correlate the patient name with a list of persons for whom RF ID tagged vials are always provided and then write order or prescription data to an RF ID tag. As yet another example, the descriptor may indicate that a specific drug manufacturer has sponsored an enhanced device program for a specific drug A for all persons to take the drug that are over 50 years old. Here, the descriptor may include contextual information including the existence of sponsorship for medicant A as well as the age of a medicant recipient and, when a medicant A is prescribed and the recipient is over 50 years old, the descriptor (i.e., the information in the order generally) may be deemed to require an enhanced device (i.e., an RF ID tag in the present example).

Turning to the meaning of claim 1, consistent with the discussion above and the information discussed during the interview, claim 1 requires an apparatus for configuring an indicating configuration (e.g., a label, RF ID tag, etc.) to be associated with a container (e.g., a vial, a box, etc.) where the indicating configuration includes an indicator (e.g., the label paper, a blank RF ID tag, etc.) and information stored thereon related to an order associated with the container (e.g., prescription

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information related to a medicant to be consumed including type of medicant, recipient, times to take the medicant, allergies, refill instructions, etc.). Claim 1 also requires that at least a subset of the indicating configurations include an enhanced device (e.g., an RF ID tag, an RF transmitter, etc.) that cooperates with a data collector to gather information from the enhanced device.

In addition, claim 1 requires a descriptor associated with each order that can be used to identify the indicating configuration (i.e., enhanced device or not) to be used with each order, a reader for reading descriptors, a writer to write data to enhanced devices and a processor that uses the descriptors to identify the type of indicating configuration to be used with each order, when an enhanced device is required for an order, writes data to an enhanced device and when an enhanced device is not required for an order, performs some other function (e.g., provides a standard label with printed information for a vial).

In light of the example and application of the example to the claim 1 language above, Applicant believes that the language of claim 1 is clear and concise. To the extent that the Examiner believes that the language in claim 1 is still vague or confusing Applicant invites the Examiner to call Applicant's attorney to discuss any ways in which the language may be altered to better capture the inventive concepts.

### **Section 112 Rejection**

1. The Office Action rejected claims 53-70, 100-105 and 112-129 as indefinite. Applicant traverses this rejection.

Here, Applicant was unable to identify what parts the rejected claims are indefinite based on the comments in the Office Action and requests that, to the extent that the Examiner sustains this rejection, the Examiner be more clear regarding the nature of the indefiniteness.

With respect to the rejected claims themselves, Applicant has recognized that in some cases a pharmaceutical manufacturer or the like may want to sponsor or pay for a system wherein enhanced devices are included on medicant containers to help ensure compliance with medication schedules. For instance, where great

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health risks may occur if medicant A is not taken on schedule by persons over 50 years of age for which medicant A is prescribed, a manufacturer may want to sponsor an enhanced labeling program to help ensure compliance and avoid bad publicity. Here, a database may be provided that specifies a set of circumstances under which sponsorship applies (hence the phrase "sponsorship criteria"). For instance, in the above example, one set of sponsorship criteria under which enhanced devices are to be provided is where medicant A is prescribed for a recipient over 50 years of age.

Turning to claim 53, claim 53 is a method claim including the steps of providing criteria indicating conditions under which a sponsor agrees to sponsor a medicant for enhanced devices. Here, the criteria may be provided by specifying the criteria in a database and, consistent with the above example, may simply be a rule set including medicant A and a recipient age over 50.

Claim 53 also requires that a prescription be received and comparing circumstantial information including prescription information to the sponsorship criteria. In the above example, for instance, the circumstantial information would include medicant type prescribed and the age of the recipient. Claim 53 further requires, if the circumstantial information satisfies the criteria, indicating that a container including an enhanced device should be used to store the medication or else indicating that a container that does not include an enhanced device should be used to store the medication.

Thus, the sponsorship criteria is simply a list of criteria stored in a database required for enhanced devices to be included with containers.

With respect to the other claims rejected along with claim 53 for indefiniteness, the comments here are applicable.

To the extent that the Examiner identifies language that may render claim 53 and other similar claims more definite, Applicant is willing to amend the claims as appropriate.

**Section 103 Rejection**

1. Claims 1 – 158 were rejected as obvious over Maestre in view of Urquhart and Gombrich. Applicant respectfully and strongly traverses this rejection.

As described in Applicant's response to the April 10, 2003 Office Action, there are generally two different categories of indicating configurations for use with containers including configurations that cooperate with data collecting devices to gather information therefrom and configurations that do not cooperate with data collecting devices. Hereinafter, configurations that cooperate with data collectors are referred to as "enhanced containers" and other configurations are referred to as "non-enhanced containers".

A general perusal of the known medical container configuring art (including Maestre, Urquhart and Gombrich as discussed in greater detail below) makes clear that prior references generally assume either a system including all enhanced containers or a system including all non-enhanced containers. This is not surprising as, generally, references that teach smart or enhanced containers typically teach the advantages of smart containers over, and teach away from, non-enhanced containers that only include human readable indicia.

In a system that assumes all containers are enhanced (e.g., containers with some type of machine readable information), there is no need to determine if an enhanced or a non-enhanced container is required to fill a prescription. Instead, because it is assumed that all medicant users have the capability to use enhanced containers, an enhanced container is always automatically provided.

**Claims 1 - 52 and 100 - 158**

Claim 1 is different than the cited references in both form and function. With respect to function, the claim 1 invention is provided to reduce order filling costs by providing a single system for configuring enhanced and non-enhanced containers and by streamlining the process of configuring enhanced and non-enhanced containers. To this end, with respect to form, claim 1 requires, among other things, (1) a processor that uses a descriptor to identify when enhanced data is associated with an order and that causes a writer to write enhanced data to an enhanced device

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when enhanced data is associated with an order, the (2) processor causing another indicating function to be performed when enhanced data is not associated with an order.

Thus, claim 1 contemplates a system wherein a descriptor is stored with each order that indicates when enhanced data should be included on a container used to fill the order and a system that uses the descriptor to determine when enhanced data should be included and that provides the enhanced data when appropriate. Here, for instance, instead of requiring a pharmacist to determine if and when enhanced data should be included with a container, the system automatically makes the determination and configures appropriately.

In contrast to reducing the costs of filling prescriptions by streamlining the container configuring process, Maestre's function is to facilitate medication consumption compliance (see background generally and col. 6, lines 59 – 68). This functional distinction (compliance versus streamlining container configuration) is important as it leads to differences in form. To this end, compliance rate cannot be increased via a standard non-enhanced device (e.g., a human readable label) and therefore, like other known prior art that teaches enhanced containers, Maestre assumes that enhanced containers are available for all prescriptions to be filled and that all medication consumers use enhanced containers. In a system that assumes all consumers use enhanced devices there is no reason to make a decision regarding whether or not enhanced data should be written to an enhanced device – data is always written to an enhanced device.

More specifically, with respect to form, as recognized by the most recent Office Action, Maestre fails to teach or suggest a reader for reading a descriptor that indicates if enhanced data should be included with a container to fill a prescription (see bottom of page 2 of Office Action).

In addition, Applicant points out Maestre also fails to teach or suggest the existence of a descriptor or that a processor controls a writing process as a function of information in the descriptor. In this regard, Maestre teaches several ways to program an enhanced memory device. Even Maestre's most automated ways of programming an enhanced device require a pharmacist to commence the programming process. In this regard see Maestre's col. 14, lines 7 – 10 where

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Maestre teaches that a pharmacist enters a programming command after which a host processor commences dosage schedule programming, col. 17, lines 21 – 24 where Maestre teaches that the programming command must be entered by the pharmacist and similar teachings throughout the specification.

In summary, Maestre fails to teach or suggest a descriptor of the type required by claim 1 (i.e., that indicates whether or not enhanced data is required), reading the descriptor and controlling data writing as a function of the descriptor information.

Turning to Urquhart, the function of Urquhart is to generate and store records related to consumption events and hence is different than the claim 1 function (i.e., to streamline container configuration). With respect to form, Urquhart facilitates record generation by providing an enhanced medicant container that can electronically sense a medicant dispensing event and generate an associated record. While Urquhart's enhanced device on Urquhart's container clearly has to be programmed in some way, Urquhart does not teach much about how the device is programmed. Thus, it is not surprising that, after a perusal of Urquhart, Applicant was unable to identify any teachings regarding a configuring system, much less a system that has the limitations required by claim 1. Generally, Urquhart does not teach or suggest a configuring apparatus for configuring an indicating configuration. More specifically, Urquhart does not teach the claim 1 limitations that Maestre lacks including a descriptor that indicates if enhanced data should be included with a container, a descriptor reader or a processor that operates as a function of the descriptor.

Turning to Gombrich, the function of Gombrich is also to increase medication consumption compliance and therefore is different than the configuration streamlining process of claim 1.

With respect to form, Gombrich teaches a system wherein enhanced data (e.g., a bar code or other electronically stored information) is stored on a patient wristband and similarly formatted information is stored on medication containers and other items so that a code reader can obtain the information from the wristband and medication containers to correlate medications and the like with specific patients (see Gombrich's Abstract and col. 8, line 66 – col. 9, line 7). In Gombrich, if a

medication container did not include enhanced machine readable information, Gombrich's invention would not operate and therefore, like other references that facilitate compliance, Gombrich contemplates that every container and every order filled will be filled in a container including an enhanced device of some type.

While Gombrich does teach a printer (see 46 in Fig. 1) for printing bar codes and the like, Gombrich contemplates a system where the printer always provides bar codes for medication containers (see col. 8, lines 31 – 34 "hospital items including drugs... will include a label 47 with an item identification bar code 49 attached thereto"). Again, as discussed above, here, where all containers include enhanced data, there is no reason to provide a descriptor that indicates whether or not enhanced data should be provided for a container. Thus, not surprisingly, Gombrich fails to teach or suggest a descriptor as required by claim 1, a reader of the descriptor or a processor that operates as a function of the descriptor to provide or not provide enhanced data for a specific container indicating configuration.

Thus, because none of Maestre, Gombrich and Urquhart teaches or suggests a descriptor, reading the descriptor and then either writing enhanced data or not writing enhanced data as a function of the descriptor information, even when taken together the references cannot render claim 1 obvious. For at least the reasons above Applicant believes claim 1 and claims dependent therefrom are patently distinct over the cited references.

Regarding claim 6, that claim further limits claim 1 by requiring that at least some of the descriptors indicate that no data should be written to an enhanced device and wherein the another function includes disabling the writer when no data is to be written to the enhanced device. Again, Applicant points out that each of the cited references contemplates only containers including enhanced data of some type – the enhanced data is required to facilitate compliance or record generation in each of the references. Where all containers must include enhanced data for an invention to work for its intended purpose it would make no sense to provide some containers that do not include enhanced data as required by claim 6. Similar comments are applicable to claim 8.

With respect to claim 7, none of the references cited appears to contemplate a container source controlled by the processor where the source provides containers

with enhanced devices attached thereto as required by claim 7. In this regard Maestre teaches a system where enhanced devices have to be manually attached to containers associated therewith. Similarly, Gombrich teaches that bar code labels are attached when an item is “made” (see col. 8, lines 35 – 39) (where the term made, in the context of a prescription, means when the prescription is filled). While Urquhart teaches a container with an enhanced device, it is unclear what the source of the containers is and there clearly is no teaching that a processor that controls the enhanced data writing process also controls the container source.

With respect to claim 9, because each of the cited references contemplates only enhanced containers, it is not surprising that none of the references teaches a system including a non-enhanced container source or a selection process between enhanced and non-enhanced containers as required by claim 9. Similar comments are applicable to claim 18.

With respect to claim 10, none of the references appears to teach or suggest an enhanced device source and a device attacher for configuring containers that include enhanced devices as required by claim 10. In this regard, Maestre teaches that enhanced devices have to be attached manually as does Gombrich (see the printed out label sheet in Gombrich’s Fig. 4) while Urquhart appears to teach a system that includes an integrated circuit memory 52 that is integral with the container. Similar comments are applicable to claim 19.

With respect to claim 25, claim 25 further limits claim 1 by requiring that the descriptors be located on the containers. Thus, here, the reader reads a descriptor from a container, the processor uses the descriptor to determine if enhanced data should be provided for the container and thereafter, if enhanced data is required, the processor writes the enhanced data to an enhanced device associated with the container.

Because none of the references cited contemplates a descriptor, none of the references could possibly teach this limitation. Even if any of the references is construed as teaching a descriptor as required by claim 1, none of the references appears to suggest that information from a container is used to determine if enhanced data should be added to the container by an external processor writing to an enhanced device.

Claim 35 requires, among other things, an enhanced container source including attached enhanced devices, a non-enhanced container source, a processor for determining when an enhanced container is required and providing an enhanced container when an enhanced container is required wherein the processor also provides enhanced data when required. As indicated above, none of the references contemplates a non-enhanced container and therefore none of the references could possibly contemplate a system including a non-enhanced container source or a processor that determines when an enhanced container is required.

With respect to claim 40, claim 40 requires a descriptor on a label that indicates data to be written to an enhanced device. As indicated above, none of the references cited teaches a descriptor of this type generally or, more specifically, on a label attached to a container.

With respect to claim 42, that claim is drawn to a system for identifying and storing a record of medicant users that use interactive systems (i.e., systems that read enhanced devices) and subsequently using a processor to automatically determine, via the stored record, when the recipient of an order input via an interface requires an enhanced device. Thus, for instance, a system user may store an indication that John Smith uses an interactive system. Thereafter, when a physician indicates that a prescription is for John Smith, the processor automatically determines that an enhanced device is to be included with the container. When an enhanced device is required, the processor indicates so to a configuring system.

Not to belabor the point but, as indicated above, none of the references cited contemplates non-enhanced containers and therefore, as one would expect, none of the references appears to suggest a system for indicating or storing indications regarding whether or not medicant users use enhanced containers or a processor that employs anything akin to such an indication.

With respect to claim 46, claim 46 requires an indicator including a descriptor on a container that includes a first segment with human readable indicia and a second machine readable segment useable to determine if an enhanced device including data should be provided on the container. For instance, the indicator may include a label including standard medication information and also include a bar code where the code indicates that an enhanced device is required for the container.

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None of the references cited appears to contemplate an indicator including both human readable indicia and a machine readable segment that indicates that an enhanced device is required.

Claim 48 is drawn to a system for selecting a container type as a function of the area required to provide label information on a container. For instance, on one hand, where a small amount of label information area is required the system may identify a relatively small container for packaging a first item. On the other hand, where a large amount of label information area is required the system may identify a relatively large container for packaging the first item.

Consistent with the above comments, claim 48 requires, among other things, an input device for specifying information about a product to be stored in a container, the product information including label information to be provided on the container exterior, the label information requiring a specific surface area on the container exterior, a processor for determining a container type based on required surface area and an output device indicating container type.

Perusing the cited references, it appears as though neither of Maestre and Urquhart teaches or suggests a label and that, generally, neither of those references discusses various container sizes or selecting container sizes based on any type of information, much less based on the area required for label information. Gombrich appears to contemplate different container sizes but does not discuss selection of containers as a function of labeling requirements. In fact it should be noted that Gombrich's only illustration of a labeled container (Fig. 2) shows a container that is far larger than required to accommodate an attached label. Thus, for at least these reasons Applicant believes claim 48 and claims dependent therefrom are patently distinct over the cited references.

Claim 50 further limits claim 48 by requiring that the information to be included on the label includes product type and quantity and wherein the processor determines a required container volume based on the product type and quantity information and, wherein, the processor selects the container type at least in part based on the required volume. Again, none of the cited references appears to teach these limitations – i.e., no reference teaches an automated container selection apparatus generally.

Claim 100 is drawn to a system wherein a sponsor such as a drug manufacturer indicates specific circumstances under which the sponsor will pay for medicant users to use containers including enhanced devices wherein, when a prescription is to be filled, a processor compares prescription information to the circumstances under which sponsorship exists and then indicates whether or not an enhanced container or a non-enhanced container should be provided to fill a prescription.

To this end, claim 100 requires a sponsorship medication profile database indicating sponsorship conditions, an input device for receiving prescription information and a processor that compares the prescription information to the sponsorship conditions and indicates either an enhanced or a non-enhanced container as a function of the comparison.

Nothing in the cited references appears to discuss sponsorship of enhanced device programs and hence a sponsor's database including conditions under which enhanced containers should be provided is not suggested by the references. In addition, again, none of the references suggests non-enhanced containers as an option and therefore a processor that determines what type of container to use to fill an order is absent from the references. Similar comments are applicable to claim 112 which includes similar limitations.

Claim 106 is similar to claim 35 except that instead of including enhanced and non-enhanced container sources, claim 106 includes enhanced and non-enhanced label sources. For the same reasons discussed above with respect to claim 35 Applicant believes that claim 106 is distinct over the cited references.

Claim 108 is drawn to a system for attaching enhanced devices to containers at specific locations with respect to data collectors. More specifically, referring to the present Fig. 1, a container cap 100 includes a member 110 that, when positioned appropriately relative an enhanced device 60 on the container, enables a processor in cap 100 to read information from enhanced device 60. Here, mechanical constraints position member 110 in a specific orientation with respect the external surface of the container. In this and many other cases, proper positioning of enhanced device on the container surface is necessary for member 110 to align with device 60.

Claim 108 covers a system for ensuring that device 60 or other similar devices on other containers is applied to the container in the correct position (e.g., an aligned section) to ensure alignment with member 110.

To this end, claim 108 includes a device attacher and a container positioner where the positioner positions a container relative the attacher such that the aligned section receives an enhanced device when the attacher operates to attach a device. None of the references cited teaches that an enhanced device must be aligned on a specific area of a container to ensure reading of information therefrom by a data collector mechanically constrained when attached to the container. In this regard, each of Maestre and Urquhart teaches a processor device that has a built in memory. Gombrich teaches a bar code that is machine readable but there is no precise location with respect to a container surface on which the bar code must be placed to ensure proper reading by a mechanically constrained data collector.

Claim 130 includes limitations similar to the limitations in claim 1 and therefore, for the reasons discussed above, Applicant believes claim 130 and claims dependent therefrom are patentable over the references cited.

Claim 151 includes limitations similar to the limitations in claim 35 and therefore, for the reasons discussed above, Applicant believes claim 151 and claims dependent therefrom are patentable over the references cited.

#### Claims 53 - 99

Claim 53 includes limitations similar to those in claim 100 and, for similar reasons, Applicant believes claim 53 is patentably distinct over the cited references.

Claim 71 includes limitations similar to the limitations in claim 1 and therefore, for the reasons discussed above, Applicant believes claim 71 and claims dependent therefrom are patentable over the references cited.

Claim 91 includes limitations similar to the limitations in claim 35 and therefore, for the reasons discussed above, Applicant believes claim 91 and claims dependent therefrom are patentable over the references cited.

Claim 97 includes limitations similar to the limitations in claim 42 and therefore, for the reasons discussed above, Applicant believes claim 97 and claims dependent therefrom are patentable over the references cited.

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Applicant has introduced no new matter in making the above amendments and antecedent basis exists in the specification and claims as originally filed for each amendment. In view of the above amendments and remarks, Applicant believes claims 1-158 of the present application recite patentable subject matter and allowance of the same is requested. A one month extension fee has been authorized in a document submitted herewith. No fee in addition to the fees already authorized in this and accompanying documentation is believed to be required to enter this amendment, however, if an additional fee is required, please charge Deposit Account No. 17-0055 in the amount of the fee.

Respectfully submitted,

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Date: 2-2-04

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